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NOTICE OF ALLOWANCE AND FEE(S) DUE

166

7590

08/28/2009

EXAMINER

BLUMEL, BENJAMIN P

ART UNIT PAPER NUMBER

YOUNG & THOMPSON 209 Madison Street Suite 500 ALEXANDRIA, VA 22314

1648 DATE MAILED: 08/28/2009

	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
Ī	10/560,594	12/13/2005	Antonius Johannes Hendrikus Stegmann	2001-1418	7185	

TITLE OF INVENTION: FUNCTIONALLLY RECONSTITUTED VIRAL MEMBRANES CONTAINING ADJUVANT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	11/30/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

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YOUNG & TH 209 Madison Str Suite 500	reet	/2009		I here State addre trans	Cert by certify that this s Postal Service we sessed to the Mail mitted to the USPI	ificate s Fee(s ith suf Stop O (57	of Mailing or Transr s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the da	nission deposited with the United t class mail in an envelope above, or being facsimile tte indicated below.
ALEXANDRIA	, VA 22314							(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/560,594 ITLE OF INVENTION	12/13/2005 : FUNCTIONALLLY R	Antoni ECONSTITUTED VIRA	ius Johannes Hendriku L MEMBRANES CO	,	3	ΙΤ	2001-1418	7185
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	11/30/2009
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BLUMEL, B	ENJAMIN P	1648	435-006000					
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PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE		data will appear on t T a substitute for filing (B) RESIDENCE: (C	he pa g an a	tent. If an assigne ssignment. and STATE OR C	OUNT	RY)	ocument has been filed for up entity
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a. The following fee(s)  Issue Fee  Publication Fee (N  Advance Order -	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).							
	<b>tus</b> (from status indicated s SMALL ENTITY state	,	☐ b. Applicant is no	long	er claiming SMAL	L ENT	ΓΙΤΥ status. See 37 CF	FR 1.27(g)(2).
OTE: The Issue Fee an terest as shown by the	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other the Office.	nan th	e applicant; a regis	stered a	attorney or agent; or the	e assignee or other party in
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10/560,594	12/13/2005	Antonius Johannes Hendrikus Stegmann	2001-1418	7185
466 75	90 08/28/2009		EXAM	IINER
YOUNG & THO	MPSON	BLUMEL, B	ENJAMIN P	
209 Madison Stree	t	ART UNIT	PAPER NUMBER	
Suite 500 ALEXANDRIA, V	A 22314		1648 DATE MAILED: 08/28/200	9

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 295 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 295 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)		
	10/560,594	STEGMANN ET AL.		
Notice of Allowability	Examiner	Art Unit		
	DENIAMINI DI DI LIMEI	1649		
	BENJAMIN P. BLUMEL	1648		
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in ) or other appropriate commu IGHTS. This application is s	this application. If not included nication will be mailed in due course.		
1. $\boxtimes$ This communication is responsive to <u>5/6/09</u> .				
2. X The allowed claim(s) is/are <u>1, 2, 4, 5, 7-12, 14, 15, 17, 19</u>	<u>and 21-23</u> .			
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority u</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> </ul>		or (f).		
2. Certified copies of the priority documents have		n No.		
3. ☐ Copies of the certified copies of the priority do	• •		ı the	
International Bureau (PCT Rule 17.2(a)).		and hadenal etage application here		
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requiremen	nts	
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv</li> </ol>			OF	
5. CORRECTED DRAWINGS ( as "replacement sheets") mu	st be submitted.			
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review	ı ( PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date				
<ul><li>(b) ☐ including changes required by the attached Examiner</li><li>Paper No./Mail Date</li></ul>	's Amendment / Comment or	in the Office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in			F	
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT</li> </ol>				
Attachment(s)	5 🗆 Nation of las	iannal Datant Application		
1. Notice of References Cited (PTO-892)	_	formal Patent Application		
<ol> <li>Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statements (PTO/SB/08),</li> </ol>	Paper No./	ummary (PTO-413), Mail Date Amendment/Comment		
Paper No./Mail Date				
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		Statement of Reasons for Allowance		
VDENIAL NAME OF THE PARTY OF TH	9. Other			
/BENJAMIN P BLUMEL/ Examiner, Art Unit 1648	/Gary B. Nickol			
Examiner, Art Offic 1940	Supervisory Pat	ent Examiner, Art Unit 1646		

Art Unit: 1648

### **DETAILED ACTION**

Applicants are informed that the rejections of the previous Office action not stated below have been withdrawn from consideration in view of the Applicant's arguments and/or amendments.

#### Election/Restrictions

The species election of group **A.**, subgroup **I.** and group **B.** established in the election/restriction mailed on 12/5/07 has been withdrawn. Therefore, claims 11 and 12 are rejoined with the previously examined claims.

Claims 1, 2, 4, 5, 7-12, 14, 15, 17, 19 and 21-23 are examined on the merits.

## Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: the prior art fails to teach or suggest the formation of a reconstituted viral membrane, which contains a viral fusion protein and an amphiphilic lipopeptide adjuvant incorporated into the lipid bilayer of the viral membrane. Furthermore, the closest prior art is that of Dijkstra et al. (The Journal of Immunology, 1996), which teaches the incorporation of bacterial lipopolysaccharide (LPS) [an amphiphilic adjuvant]. However, Dijkstra et al. do not teach or suggest that an amphiphilic lipopeptide adjuvant can be incorporated into the lipid bilayer as in the instant invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Robert E. Goozner on August 17, 2009.

The application has been amended as follows:

IN THE CLAIMS:

In claim 1, at line 9, "interact with" has been deleted and -- are incorporated within-inserted therefor.

Claim 24 is cancelled.

#### Conclusion

Claims 1, 2, 4, 5, 7-12, 14, 15, 17, 19 and 21-23 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BENJAMIN P. BLUMEL whose telephone number is (571)272-4960. The examiner can normally be reached on M-F, 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Nickol can be reached on 571-272-1600. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 1648

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call

/BENJAMIN P BLUMEL/ Examiner Art Unit 1648

/Gary B. Nickol / Supervisory Patent Examiner, Art Unit 1646

800-786-9199 (IN USA OR CANADA) or 571-272-1000.